

**UNDERWATER SPORTS**

10545 AURORA AVE. N.  
SEATTLE, WA 98133  
(206) 362-3310

**COMPRESSED BREATHING AIR ANALYSIS**

	<b>RESULTS</b>	<b>GRADE D MAX</b>	<b>GRADE E MAX</b>
OXYGEN O <sub>2</sub>	21 %	<u>19.5% - 23.5%</u>	<u>20.0% - 22.0 %</u>
WATER VAPOR H <sub>2</sub> O	NO TRACE	<u>54ppm/40mg/m<sup>3</sup></u>	<u>54ppm/40mg/m<sup>3</sup></u>
CARBON MONOXIDE CO	0ppm	<u>10ppm</u>	<u>10ppm</u>
CARBON DIOXIDE CO <sub>2</sub>	400ppm	<u>1000ppm</u>	<u>500ppm</u>
OIL MIST (HYDROCARBONS)	NO TRACE	<u>5.0 mg/m<sup>3</sup></u>	<u>5.0 mg/m<sup>3</sup></u>

SAMPLE FROM \_\_\_ COST GU. RD

SAMPLE DATE \_\_\_ N/A

TECHNICIAN — SIGNATURE 

GRADE D air is the minimum grade for routine use in self-contained or supplied air protective equipment,  
as used in industry, fire fighting or general respiratory use.

GRADE E air is the minimum grade to be used for sport diving, to 125 feet.

ppm-parts per million  
mg/m<sup>3</sup>-milligrams per cubic meter

b(6) + 7(c)

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10545 AURORA AVE. N.  
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	RESULTS	GRADE D MAX	GRADE E MAX
OXYGEN O2	21.2 %	<u>19.5% - 23.5%</u>	<u>20.0% - 22.0 %</u>
WATER VAPOR H2O	20MG/M3 27PPM	<u>54ppm/40mg/m3</u>	<u>54ppm/40mg/m3</u>
CARBON MONOXIDE CO	NO TRACE	<u>10ppm</u>	<u>10ppm</u>
CARBON DIOXIDE CO2	400 PPM	<u>1000ppm</u>	<u>500ppm</u>
OIL MIST (HYDROCARBONS)	NO TRACE	<u>5.0 mg/m3</u>	<u>5.0 mg/m3</u>

TECHNICIAN —

**SIGNATURE**

GRADE E air is the minimum grade to be used for sport diving, to 125 feet.

$$6(6) + 7(1)$$



TRI Air Testing, Inc.  
A Texas Research International Company  
9063 Bee Caves Road  
Austin, Texas 78733-6201  
http://www.airtesting.com

## Laboratory Analyses Report Compressed Air Quality Testing

C447 CGC HEALY (WAGB-20)  
ATTN LTJG [REDACTED]  
1519 ALASKAN WAY SOUTH  
SEATTLE, WA 98134

ACTIVITY CODE: C447  
DATE SHIPPED: 02/17/04  
DATE RECEIVED: 03/24/04  
DATE REPORTED: 03/25/04  
KIT NO: 700

ANALYSIS REQUESTED	SPECIFICATIONS FOR GAS SAMPLE	RESULTS OF GAS SAMPLE ANALYSIS
Oxygen (Volume %)	20-22	20.7
Carbon Dioxide (ppmv)	1000	566
Carbon Monoxide (ppmv)	20	< 1
Total Gaseous Hydrocarbons - Methane (ppmv)	25	< 1
Oil Mist & Particulate (mg/m3)	5	< 0.2
Odor (Objectionable)	NO	NO
Methane (ppmv)	NA	1.8

This is to certify that the above referenced sample DOES MEET the air purity standard for  
NAVSEA 09940-LP-001-9010 USN DIVING MANUAL, VOL 1, REV 3, APPENDIX L, TBL L-1

Authorized Chemist: [REDACTED]

Cylinder: KT3  
Report No.: 12658 - 00

Filter: X6849  
Air Source: BAUER K-15-E-3 # 32272

CC: NAVAL SURFACE WARFARE CENTER PANAMA CITY ATTN: [REDACTED] CODE ES3 PANAMA CITY, FL 32407-7001

b(6) + 7(c)

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TRI/ENVIRONMENTAL, INC.  
A Texas Research International Company

## NATIONAL COMPRESSED AIR CERTIFICATION

9063 Bee Caves Road  
Austin, TX 78733-8201  
<http://www.texasresearchintl.com>

USCG INTERGRATED SUPPORT  
ATTN: [REDACTED]  
1519 ALASKAN WAY SOUTH  
SEATTLE, WA 98134

ACTIVITY CODE: C447  
DATE SHIPPED: 12/19/2002  
DATE RECEIVED: 01/09/2003  
DATE REPORTED: 01/10/2003  
KIT NO.: 731

ANALYSIS REQUESTED	SPECIFICATIONS FOR GAS SAMPLE	RESULTS OF GAS SAMPLE ANALYSIS
OXYGEN (%)	20-22	20.9
CARBON DIOXIDE (ppm)	1000	< 25
CARBON MONOXIDE (ppm)	20	< 1
TOTAL HYDROCARBONS OTHER THAN METHANE (ppm)	25	< 1
OIL MIST, PARTICULATE (mg/m <sup>3</sup> )	5	5.0
ODOR	Not objectionable	Not objectionable
METHANE (ppm)	Not specified	2.2

This is to certify that the above referenced sample DOES MEET  
the air purity standard for compressed breathing air per  
NAVSEA 0994-LP-001-9010 USN Diving Manual.

Authorized Chemist: [REDACTED]

Cylinder: KT32      Filter: 611  
Report No.: 03-0260      AIRSOURCE: BAUER K15-E3  
FAX: 206-217-6909

Note high concentrations of the following analyte(s): oil mist & particulate  
CC: COASTAL SYSTEMS STATION    ATTN: [REDACTED]    6703 WEST HIGHWAY 98    PANAMA CITY, FL 32407-7001

b(6) + 7(c)

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# NATIONAL COMPRESSED AIR CERTIFICATION

**TRI/ENVIRONMENTAL, INC.**  
A Texas Research International Company

9063 Bee Caves Road  
Austin, TX 78733-6201  
<http://www.texasresearchintl.com>

USCGC HEALY (WAGB20)  
ATTN DIVE OFFICER  
14 S. MASSACHUSETTS STREET  
SEATTLE, WA 98146

ACTIVITY CODE: C447  
DATE SHIPPED: 03/20/2001  
DATE RECEIVED: 03/27/2001  
DATE REPORTED: 03/28/2001  
KIT NO. : 735

ANALYSIS REQUESTED	SPECIFICATIONS FOR GAS SAMPLE	RESULTS OF GAS SAMPLE ANALYSIS
OXYGEN (%)	20-22	20.8
CARBON DIOXIDE (ppm)	1000 20	455
CARBON MONOXIDE (ppm)		< 1
TOTAL HYDROCARBONS OTHER THAN METHANE (ppm)	25	< 1
OIL MIST, PARTICULATE (mg/m <sup>3</sup> )	5	0.1
ODOR	Not Objectionable	Not Objectionable
METHANE (ppm)	Not Specified	1.8

This is to certify that the above referenced sample DOES MEET  
the air purify-091 A016 USN Natingssed breathing air per  
NAVSEA 0994- [REDACTED] Manual.

Authorized Chemist:

Cylinder: KT147  
Report No.: 01-3227  
FAX: 206-217-6909

Filter: 1137  
AIRSOURCE: BAUER/K-15-E3 SCBA SN# 32272

CC: COASTAL SYSTEMS STATION    ATTN: [REDACTED]    6703 WEST HIGHWAY 98    PANAMA CITY, FL    32407-7001

$$b(w) + 7(c)$$

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To:

T. [REDACTED] LTJG; [REDACTED] LTJG; [REDACTED] R. LTJG;

Cc:

Subject:

Poseidon Regulators and EXO-26 BR MS

Gentlemen,

Enclosed is the remainder of the Poseidon order that I had planned to send out last fall. Due to the U.S. Distributor breaching their contract with Poseidon (Sweden), my funds (and equipment) were tied up until recently.

All ships should have received the following except where noted:

#3960	Regulator, Odin	11 (8 for normal setup, 3 to used for EXO)
#2970	Regulator, Octopus	8
#P10069	Service Manual	1
#3769	Overhaul Kit, 1st Stage	5
#3549	Overhaul Kit, 2nd Stage	8
#3397	First Stage Base	1
#2297	O-Ring Remover	1
#3605	Combination Tool #1	1
#3606	Combination Tool #2	1
#27mm	27 mm Wrench	1
#1286	Cold Water Kit	10 (Polar vessels only)
	EXO-26 to Poseidon Adaptor	3

If you have not received the above items either in today's shipment, or in the previous months, let me know. Everyone should have also received Uwatec consoles (depth/time log - compass - HP gauge) - 8 each  
Dive-Rite twin tank manifolds - 6 each

I will purchase the overhaul kits for the Poseidon and EXO-26 each FY and mail them out to each cutter.

You will be receiving 2 videos tapes under separate cover. One video is for the maintenance of the EXO-26 that was developed by DSI for the NAW. I also included the USN PMS, Pre & Post Dive sheets and JQR. Please use the JQR for each diver and place in individuals training record. I developed a Poseidon Maintenance video. The tape may seem cheesy, but it works. After watching the video a few times, working on the Poseidon should be as easy as the Conshelf (well almost as easy)

Please sign the 1149 and mail back.

b (6) + 7 (c)

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